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PATENT ABSTRACTS OF JAPAN

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PROBLEM TO BE SOLVED: To secure a sufficient strength, to miniaturize the size and to reduce the weight by reducing the compression height in a piston for a reciprocating engine.

SOLUTION: A pin boss 3 is integrally formed in the bottom portion 2a of a piston head 2. A small end portion of a connecting rod is inserted in the pin boss 3 and a piston pin is inserted into a pin hole 8 so as to connect the connecting rod. Inclined portions 14 inclined in the direction separating from the connecting rod are formed in both sides of a central part 13 of an opposite surface 12 to the connecting rod in the connecting portion 3b of the pin boss 3 to the piston head 2. Round portions are formed in boundary portions 13a and 14a between the opposite surface 12 and the bottom portion 2a of the piston head 2 and the radius of the round portion in the boundary portion 14a of the inclined part 14 is gradually enlarged corresponding to the inclination from the side of the central part 13 to the end part side. The radius of the round portion can be enlarged without interfered with the small end portion of the connecting rod so as to mitigate the

concentration of a stress, enhance the strength, and reduce the compression height.

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